This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Currently Amended)   A User Datagram Protocol (UDP) packet containing Transcoder/Rate Adaptor Unit (TRAU) information for transmission in an Internet Protocol (IP) based Base Station System (BSS) architecture, said UDP packet comprising:

a payload including data bits and zero or more parity bits;

TRAU in-band control information relevant to said payload and said IP based BSS architecture, said TRAU in-band control information being appended to said payload;

a sequence number parameter defining a sequence number associated with said payload, said sequence number parameter being appended to said payload and said TRAU in-band control information, wherein said sequence number is a function of the maximum jitter in said IP based BSS architecture; and

UDP and IP header information including at least an IP address for a receiving node of said UDP packet within said IP based BSS architecture.

2.   (Original)   The UDP packet of Claim 1, further comprising:

frame type information associated with a frame type of said payload, said frame type information being appended to said payload.

3.   (Currently Amended)   The UDP packet of Claim 2, wherein said frame type is selected from a [[the]] group consisting of:

a full rate or enhanced full rate speech frame,

an adaptive multi-rate speech frame,

a half rate speech frame,

an operation and maintenance frame,

a data frame,

an extended data frame,

an idle speech frame and a silence descriptor frame.

4.   (Original)   The UDP packet of Claim 1, wherein said TRAU in-band control information does not include a Time Alignment command parameter.

5.   (Original)   The UDP packet of Claim 1, wherein said UDP packet does not include synchronization bits, tail bits or spare bits.

6.   (Original)   The UDP packet of Claim 1, wherein the length of said UDP packet varies.

7.   (Original)   The UDP packet of Claim 1, wherein said TRAU in-band control information includes at least one of a phase alignment parameter, a handover command parameter, a request or indication flag parameter, an uplink frame error parameter, a discontinuous transmission request parameter, a frame classification parameter or a code mode indication or code mode request parameter.

8.   (Canceled)

9.   (Currently Amended)   The telecommunications system of Claim 18 [[8]], wherein said UDP header information and IP header information ~~includes~~ include at least an IP address associated with said second node.

10.   (Currently Amended)   The telecommunications system of Claim 9, wherein said UDP header information and IP header information further ~~includes~~ include a UDP port number associated with said second node.

11.   (Currently Amended)   The telecommunications system of Claim 19 [[8]], wherein said first node is a Channel Codec Unit within a Base Transceiver Station and said second node is a Transcoder/Rate Adaptor Unit within a Media Gateway.

12.   (Currently Amended)   The telecommunications system of Claim 19 [[8]], wherein said first node is a Transcoder/Rate Adaptor Unit within a Media Gateway and said second node is a Channel Codec Unit within a Base Transceiver Station.

13.   (Currently Amended)   The telecommunications system of Claim 19 [[8]], wherein said UDP packet further comprises:

frame type information associated with a frame type of said payload, said frame type information being appended to said payload by said first node.

14.   (Original)   The telecommunications system of Claim 13, wherein said frame type is selected from the group consisting of: a full rate or enhanced full rate speech frame, an adaptive multi-rate speech frame, a half rate speech frame, an operation and maintenance frame, a data frame, an extended data frame, an idle speech frame and a silence descriptor frame.

15.   (Currently Amended)   The telecommunications system of Claim 19 [[8]], wherein said TRAU in-band control information does not include a Time Alignment command parameter.

16.   (Currently Amended)   The telecommunications system of Claim 19 [[8]], wherein said UDP packet does not include synchronization bits, tail bits or spare bits.

17.   (Currently Amended)   The telecommunications system of Claim 19 [[8]], wherein the length of said UDP packet varies.

18.   (Currently Amended)   The telecommunications system of Claim ~~19~~ [[8]], wherein said TRAU in-band control information includes at least one of a phase alignment parameter, a handover command parameter, a request or indication flag parameter, an uplink frame error parameter, a discontinuous transmission request parameter, a frame classification parameter or a code mode indication or code mode request parameter.

19.   (Currently Amended)   ~~The telecommunications system of Claim 8,~~ A telecommunications system for transmitting Transcoder/Rate Adaptor Unit (TRAU) information in an Internet Protocol (IP) based Base Station System (BSS) architecture via an IP network, said telecommunications system comprising:
        a first node within said IP based BSS architecture that is adapted to:
                receive a payload;
                append TRAU in-band control information relevant to said payload and said IP based BSS architecture to said payload;
                append a sequence number parameter defining a sequence number of said payload to said payload and said TRAU in-band control information, wherein said sequence number is a function of the maximum jitter in said IP network; and
                encapsulate said payload, said TRAU in-band control information and said sequence number parameter into a User Datagram Protocol (UDP) packet, said UDP packet including UDP header information and IP header information; and
        a second node within said IP based BSS architecture and connected to said first node through said IP network, said second node being adapted to receive said UDP packet from said first node through said IP network using said UDP header information and said IP header information.

20.   (Canceled)

21.   (Currently Amended)   The method of Claim ~~23~~ [[20]], further comprising the step of:

appending frame type information associated with a frame type of said payload to said payload by said first node.

22. (Currently Amended)   The method of Claim 23 [[20]], wherein said step of appending TRAU in-band control information further comprises the step of :

appending at least one of a phase alignment parameter, a handover command parameter, a request or indication flag parameter, an uplink frame error parameter, a discontinuous transmission request parameter, a frame classification parameter or a code mode indication or code mode request parameter to said payload.

23. (Currently Amended)   ~~The method of Claim 20, wherein said step of appending said sequence number parameter further comprises the step of:~~

~~determining said sequence number~~ A method for transmitting Transcoder/Rate Adaptor Unit (TRAU) information in an Internet Protocol (IP) based Base Station System (BSS) architecture via an IP network, said method comprising the steps of:

receiving a payload at a first node within said IP based BSS architecture;

appending TRAU in-band control information relevant to said payload and said IP based BSS architecture to said payload by said first node;

appending a sequence number parameter defining a sequence number of said payload to said payload and said TRAU in-band control information by said first node; wherein said sequence number is determined as a function of the maximum jitter in said IP network;

encapsulating said payload, said TRAU in-band control information and said sequence number parameter into a User Datagram Protocol (UDP) packet, said UDP packet including UDP header information and IP header information identifying a second node within said IP based BSS architecture; and

transmitting said UDP packet to said second node through said IP network.

~~as a function of the maximum jitter in said IP network.~~

24. (Currently Amended) The method of Claim 23 [[20]], wherein said step of encapsulating further comprises the step of:

encapsulating said payload, said TRAU in-band control information and said sequence number parameter into said UDP packet without including a Time Alignment command parameter within said TRAU in-band control information.

25. (Currently Amended) The method of Claim 23 [[20]], wherein said step of encapsulating further comprises the step of:

encapsulating said payload, said TRAU in-band control information and said sequence number parameter into said UDP packet without including synchronization bits, tail bits or spare bits within said UDP packet.